

ORDER

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

6850.12

5/17/76

SUBJ: VISUAL GUIDANCE LIGHTING SYSTEMS STANDARD DRAWINGS (FY-75)

1. PURPOSE. This order directs the use of the following standard drawings for the establishment of 4- and 6-Box VASI systems, Type FA-9457, utilizing components furnished by SEPCO under Contract DOT-FA75WA-3694.

<u>Number</u>	<u>Date</u>	<u>Title</u>
D-6074-0	4/19/76	Visual Approach Slope Indicator System, Dwg. Index
D-6074-1	4/19/76	Visual Approach Slope Indicator System, Typical Site Layout.
D-6074-2	4/19/76	Visual Approach Slope Indicator System, General Plans Sections and Foundation Details.
D-6074-3	4/19/76	Visual Approach Slope Indicator System, Electrical Plans & Wiring Diagrams, 4-Box VASI System.
D-6074-4	4/19/76	Visual Approach Slope Indicator System Electrical Plans & Wiring Diagrams, 6-Box VASI System.
D-6074-5	4/19/76	Visual Approach Slope Indicator System Wiring Diagram- Power & Control Assembly.

2. DISTRIBUTION. This order is distributed to branch level in Airway Facilities Service, and to division level in Logistics, Systems Research & Development, Airports, Flight Standards and Air Traffic Services in FAA headquarters; branch level in regional Airway Facilities, Airports, Flight Standards and Air Traffic divisions (except AEU); and to the Directors, NAFEC and the Aeronautical Center.

3. BACKGROUND. Drawings D-6074-0, D-6074-1, D-6074-2, D-6074-3, D-6074-4, and D-6074-5 are issued to provide the proper installation of VASI equipment manufactured by SEPCO Division of Connecticut International Corporation, under Contract DOT-FA75WA-3694, Type FA-9457.

Distribution WAF-3; WRD/AS/LG/FS/AT-2

Initiated By: AAF-560

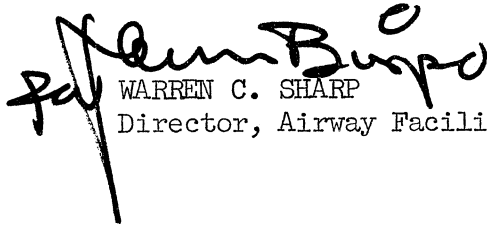
RAF/AT/FS/AS-3 (except AEU); NC-1

4. APPLICATION. Drawing 6074-1 shows typical site layouts for 4- and 6-Box VASI systems. This drawing is to be used as a guide and check-list for information that is required on the project site plan drawings. Actual siting of the system shall be in accordance with Order 6850.2, Visual Guidance Lighting System. Drawings 6074-2, 3, and 4 have been developed as standard foundation construction and electrical installation drawings. The foundation design for the VASI unit and the supports for the power and control assembly are based on a minimum safe soil bearing pressure of 3,000 pounds per square foot psf. Depth of foundations footing shall be a minimum of 4' - 0" or 2' below local frost depth, whichever is greater. Frost depth shall be noted on project site plan. Where the actual site soil bearing strength is less than 3,000 psf and/or the local frost depth is greater than 6' - 0", the foundation and support designs as shown on these drawings shall be modified as required to suit actual site conditions. Power and control assembly wiring diagram is shown in D-6074-5. Power source configurations are site-determined; therefore, each service extension shall be set forth on the site layout and an appropriate service extension detailed drawing developed. These drawings shall be used for all future establishment, relocation, and current construction projects for SEPCO type FA-9457 equipment. Inquiries or comments regarding these drawings shall be directed to the Chief, Environmental Systems Division, AAF-500.
5. FLIGHT STANDARDS INTERFACE. The VASI system need not be flight inspected when the VASI boxes are aligned using a Walker Bar. A Walker Bar is provided with the FA-9457 VASI equipment and is identified as type FA-9459. A commissioning flight check is required on those systems with an obstacle clearance waiver and systems with usable reduced limits because of obstacles, even though the boxes are aligned with a Walker Bar.
6. DEVIATION FROM STANDARD. No deviation from the standard is authorized without the concurrence of the Director, Flight Standards Service, and prior approval of Director, Airway Facilities Service. Regional site adaptation to accommodate terrain, utility connections, parking lots, access roads, and similar details are authorized without further clearance. Dimensional errors, discrepancies, or suggestions for modification or addition of details should be brought to the attention of Chief, Environmental Systems Division, AAF-500.
7. CORRECTIONS TO STANDARD. Corrections to the standard may be made by the Director, Airway Facilities Service, without further regional or interservice coordination. These may include corrections of dimensional errors, misspellings, and modification, addition, or deletion of details.

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8. DISTRIBUTION OF DRAWINGS. A reproducible copy of each drawing is being forwarded to NAFEC; each region (except AEU), Attention: Airway Facilities Division; and two copies of each drawing to the Aeronautical Center, Attention: Chief, FAA Depot. Additional copies may be obtained from the Environmental Systems Division, Airway Facilities Service, Attention: AAF-510.


WARREN C. SHARP
Director, Airway Facilities Service

